PATENT COOPERATION TREATY

From the INTERNAT	TIONAL SEARCI	HING AUTHO	ORITY				
To: HADASSA WATERMAN G.E. EHRLICH (1995) LTD. II MENACHEM BEGIN STREET RAMAT GAN, ISRAEL 52521				PCT WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY			
				(PCT Rule 43bis.1)			
					Date of mailing	1 K OOT pains	
Applicant	's or agent's file r	eference			(day/month/year) FOR FURTHER	ACTION 15 OCT 2008	
39833						See paragraph 2 below	
Internation	nal application No).	International fil	ling date (day/month/year)	Priority date (day/month/year)	
PCT/IL07/00918 19 July 2007 (19.07.200			7)				
Internation	ral Patent Classifi	cation (IPC) o	r both national c	lassificati	on and IPC		
	A <mark>61K 51/00(200</mark> 424/1.11;604/403		/00(2006.01)				
Applicant					· · · · · · · · · · · · · · · · · · ·		
SPECTRU	JM DYNAMICS						
1. This c	pinion contains it	ndications rela	ting to the follow	ving item	5 :		
\boxtimes	Box No. I Basis of the opinion						
	Box No. II Priority						
\boxtimes	Box No. III	Non-establis	hment of opinio	n with reg	gard to novelty, inve	ntive step and industrial applicability	
\boxtimes	Box No. IV	Lack of unit	y of invention				
	Box No. V Reasoned statement under Rule 43 bis. 1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
	Box No. VI	Certain docu	iments cited				
	Box No. VII	Certain defe	cts in the interna	itional app	olication		
	Box No. VIII	Certain obse	rvations on the i	internation	nal application		
2. FUR	THER ACTIO	N					
lf a d Intern Autho	emand for international Prelimination than the	ational preliming Examining is one to be the state of the	g Authority ("If he IPEA and the	PEA") ex e chosen l	cept that this does	be considered to be a written opinion of the not apply where the applicant chooses an at International Bureau under Rule 66.1 bis(b) ered.	
of For	m PCT/ISA/220	ogether, where or before the c	appropriate, wit xpiration of 22 n	th amendi	nents, before the ex	PEA, the applicant is invited to submit to the piration of 3 months from the date of mailing whichever expires later.	
For fu	other options, see	Form PCT/IS	A/220.				
3. For fu	nther details, see i	notes to Form	PCT/ISA/220.			•	
Name and	mailing address of	of the ISA/IIS	Date o	Complet	ion of this opinion	Authorized officer	
h C	Mail Stop PCT, Attn Commissioner for Pa P.O. Bax 1450	: ISA/US		•	008 (01.09.2008)	MARIA B. MARVICH	
P	Alexandria, Virginia 22313-1450 Facsimile No. (571) 273-3201					Telephone No. (703) 308-0196	

Form PCT/ISA/237 (cover sheet) (April 2007)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/IL07/00918

Box No. I Basis of this opinion					
1. With regard to the language, this opinion has been established on the basis of:					
the international application in the language in which it was filed					
a translation of the international application into, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).					
This opinion has been established taking into account the rectification of an obvious mistake authorized by or notified to this					
Authority under Rule 91 (Rule 43bis.1(a)) 3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, this opinion has been established on the basis of:					
a. type of material					
a sequence listing					
table(s) related to the sequence listing					
b. format of material					
on paper					
in electronic form					
c. time of filing/furnishing					
contained in the international application as filed.					
filed together with the international application in electronic form.					
furnished subsequently to this Authority for the purposes of search.					
In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.					
5. Additional comments:					
Form PCT/ISA/237(Box No. 1) (April 2007)					

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/IL07/00918

Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability	
The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non-obvious), or to be industrially applicable have not been examined in respect of:	
the entire international application	
claims Nos. 290-295,359,362,363,367,371,372,380-382,384,449-540 and 578-582	
because:	
the said international application, or the said claim Nos. 428-448 relate to the following subject matter which does not require an international search (specify):	
because the claimed recitation of a use without setting forth any steps involved in the process, results in an improper definition of a process, i.e., results in a claim which is not a proper process claim under 35 USC 101.	מס
the description, claims or drawings (indicate particular elements below) or said claims Nos. 290- 295.359.362.363.367.371.372.380-382.384.449-540 and 578- are so unclear that no meaningful opinion could be formed (specify):	
A multiply dependent claim cannot depend from another multiply dependent claim	
the claims, or said claims Nos are so inadequately supported by the description that no meaningful opinion could be formed (specify):	;
no international search report has been established for said claims Nos.	
a meaningful opinion could not be formed without the sequence listing; the applicant did not, within the prescribed time limit:	•
furnish a sequence listing on paper complying with the standard provided for in Annex C of the Administrative Instructions, and such listing was not available to the International Searching Authority in a form and manner acceptable to it.	;
furnish a sequence listing in electronic form complying with the standard provided for in Annex C of the Administrative Instructions, and such listing was not available to the International Searching Authority in a form and manner acceptable to it.	
pay the required late furnishing fee for the furnishing of a sequence listing in response to an invitation under Rules 13ter. I(a) or (b).	l
a meaningful opinion could not be formed without the tables related to the sequence listings; the applicant did not, within the prescribed time limit, furnish such tables in electronic form complying with the technical requirements provided for in Annex C-bis of the Administrative Instructions, and such tables were not available to the International Searching Authority in a form and manner acceptable to it.	e
the tables related to the nucleotide and/or amino acid sequence listing, if in electronic form only, do not comply with the technical requirements provided for in Annex C-bis of the Administrative Instructions.	
See Supplemental Box for further details.	

Form PCT/ISA/237 (Box No. III) (April 2007)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

INTERNATIONAL SEARCHING	AUTHORITY	PCT/IL07/00918	
Box No. 1V Lack of unity of invention			
In response to the invitation (Form PCT/III) paid additional fees paid additional fees under protest paid additional fees under protest not paid additional fees	and, where applicable, the probable applicable protest fee	rotest fee was not paid	
 This Authority found that the requirement pay additional fees. 	of unity of invention is not co	omplied with and chose not to invite the	applicant to
3. This Authority considers that the requirement of complied with	funky of invention in accorda	nce with Rule 13.1, 13.2 and 13.3 is	
not complied with for the following reaso		•	
See the lack of unity section of the International	Search Report(Form PCT/(S/	A/210)	
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4. Consequently, this opinion has been established in all parts.	respect of the following parts	s of the international application:	
the parts relating to claims Nos. 1-289,29	96-358,360,364-366,368-3 7 0,	373-379,383,385-448,541-577 and 583-	5 <u>88</u>

Form PCT/ISA/237 (Box No. IV) (April 2007)

WRITTEN OPINION OF THE

International application No.

INTERNATIONAL SEARCHING	INTERNATIONAL SEARCHING AUTHORITY					
Box No. V Reasoned statement under Rule 43 bis. 1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
1. Statement						
Novelty (N)	Claims	Please See Continuation Sheet	YES			
	Claims	Please See Continuation Sheet	NO			
Inventive step (IS)	Claims	Please See Continuation Sheet	YES			
	Claims	Please See Continuation Sheet	NO			
Industrial applicability (IA)	Claims	Please See Continuation Sheet	YES			
	Claims	Please See Continuation Sheet	NO			
2. Citations and explanations:						
Claims 252 and 253 lack novelty under P document). Jackson et al teach methods of packaging and pack 0004 and 0025).		as being anticipated by Jackson et al (US 200) ceuticals such as ¹³ N ammonia or ¹⁵ O water (
Claims 254-261, 267, 385-388 and 566 la 20070166277). Liu et al teach for example that To dual radiolabels that are different from each other (99m compounds a	PCT Article 33(2) as being anticipated by Liu re between 0.05-5 mCi (see e.g. ¶ 233). Liu r	ı et al (US ct al also teach use of			
01 : 641 560 1 500 600						

Claims 541, 552 and 583-588 lack novelty under PCT Article 33(2) as being anticipated by Belardinelli et al (US 20050020915; see entire document).

Bellardinelli et al teach compositions and methods of administration of a first and second radiopharmaceutical wherein stress is applied prior to the second an d then radioimaging (see e.g. ¶ 0242).

Claims 283-286 and 289 lack an inventive step under PCT Article 33(3) as being obvious over Liu et al (20070166277) in view of Ruosso et al (20050205792).

Liu et al in view of Ruosso et al teach compositions and methods of imaging myocardial reperfusions with dual radiopharmaceuticals (see Liu et al ¶ 0139, 0233 and Ruosso et al figure 7 and ¶ 0086).

Claims 1-251, 262-266, 268-272, 275, 287, 288, 296-358, 360, 361, 364-366, 368-370, 373-379, 383, 389-427, 542-551, 553-565, 567-577 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest the specific components of doses and combinations as set forth in the claims.

Claims meet the criteria set out in PCT Article 33(4), and thus meet industrial applicability because the subject matter claimed can be made or used in industry.

Claims 1-276, 283-289, 296-358, 360, 361, 364, -366, 368-370, 373-379, 383, 385-427, 541-577, 583-588 meet the criteria set out in PCT Article 33(4), and thus meet industrial applicability because the subject matter claimed can be made or used in industry.

Form PCT/ISA/237 (Box No. V) (April 2007)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/IL07/00918

Supplemental Box In case the space in any of the preceding boxes is not sufficient.
V.I. Reasoned Statements:
The opinion as to Novelty was positive (Yes) with respect to claims 1-251, 262-266, 268-272, 275, 283-288, 296-358, 360, 361, 364-366, 368-370, 373-379, 383, 389-427, 542-565, 567-577
The opinion as to Novelty was negative (No) with respect to claims 252-261, 267, 273, 274, 276, 385-388, 541, 552, 566, 583, 584, 586, 587
The opinion as to Inventive Step was positive (Yes) with respect to claims 1-251, 262-266, 268-272, 275, 287, 288, 296-358, 360, 361, 364-366, 368-370, 373-379, 383, 389-427, 542-565, 567-577
The opinion as to Inventive Step was negative (NO) with respect to claims 252-261, 267, 273, 274, 276, 283-286, 289, 385-388, 541, 552, 566, 583, 584, 586, 587 The opinion as to Industrial Applicability was positive (VES) with provided to the control of the co
The opinion as to Industrial Applicability was positive (YES) with respect to claims 1-227, 283-289, 296-358, 360, 361, 364-366, 368-370, 373-379, 383, 385-427, 541-577, 583-588 The opinion as to Industrial Applicability was negative (NO) with respect to claims NONE
The opinion as to madadan Applicationly was negative (140) with respect to claims 140ME

Form PCT/ISA/237 (Supplemental Box) (April 2007)